

Fig. 1

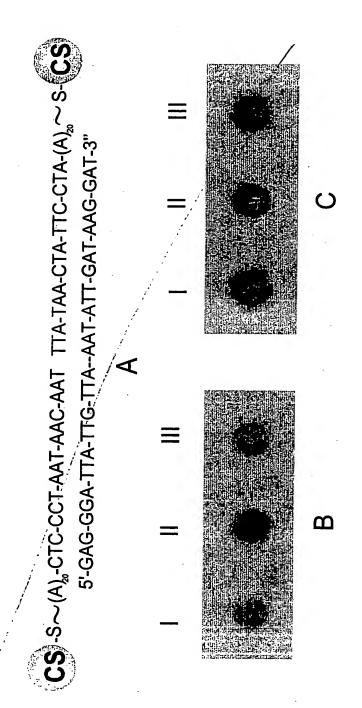


Fig. 2



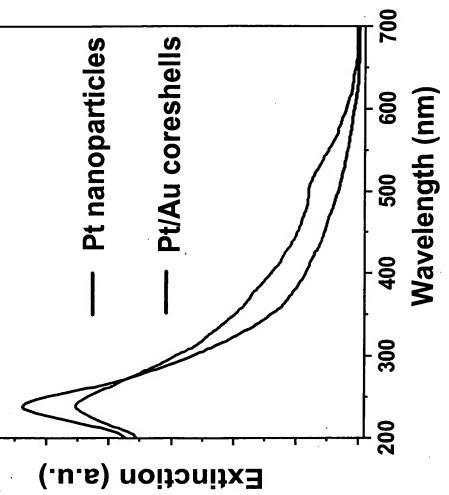
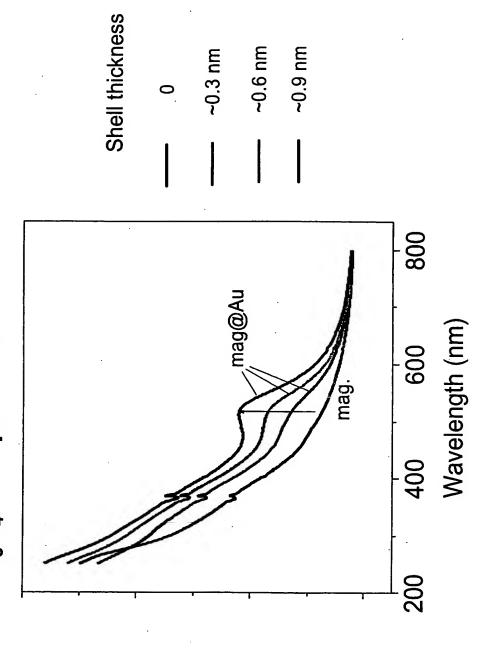


Fig. 3

Docket No. 01-661-A

Growth of Au on the surface of Fe₃O₄ nanoparticles



Extinction (a.u.)

Magnetic properties of gold coated Fe₃O₄ nanoparticles

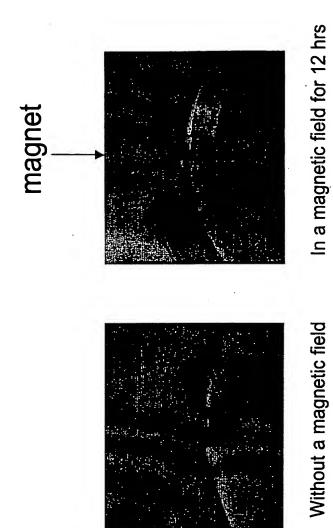
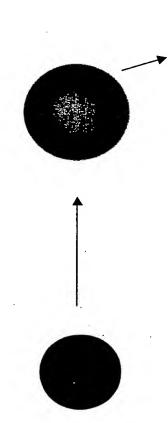


Fig. 5

Coloriess

With the color of gold nanoparticles

Coreshell Approach to Magnetic Gold Nanoparticles



Gold coated magnetic nanoparticle

A: metal oxides magnetic cores: Fe₃O₄, Co₃O₄

B: pure metal cores: Fe, Co, Ni...

C: alloy metal cores: FePt, FeAu

Fig. 6

Fig. 7

